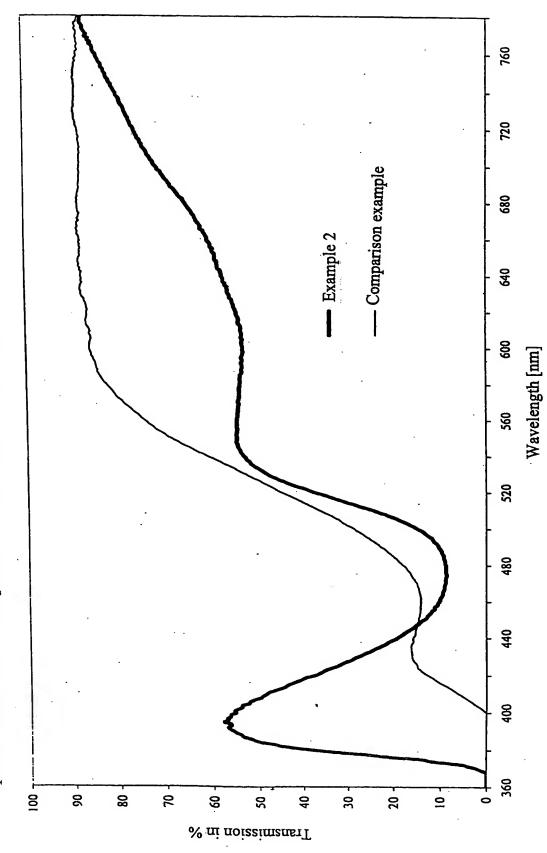
(1)

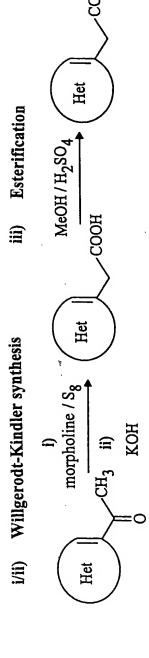


Spectral transmission comparison in the darkened state (planar glass 500 ppm; 23°C, 50 klux)

Fig. 1



Reaction Scheme



iv) Ester condensation
$$R_1$$

$$R_1 + R_2$$

$$0 = \begin{pmatrix} R_1 \\ R_4 \end{pmatrix}$$

$$Het$$

$$R_1 + R_4$$

$$R_4 + R_4$$

$$Het$$

$$R_4 + R_4$$

$$R_5 + R_4$$

$$R_6 + R_6$$

$$R_6 + R_6$$

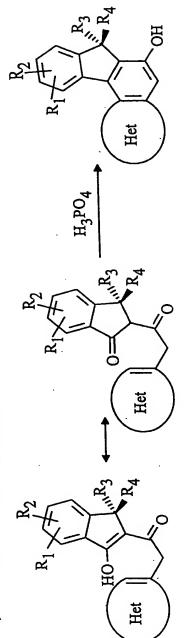
$$R_7 + R_8$$

$$R_8 + R_8$$

$$R_8$$

Continuation of Fig. 2

v) Intramolecular cyclization



vi) Pyran condensation

$$R_1 \xrightarrow{R_2} R_4$$

$$R_1 \xrightarrow{R_3} R_4$$

$$R_4 \xrightarrow{R_4} R_4$$

$$R_4 \xrightarrow{R_4} R_4$$

$$R_4 \xrightarrow{R_4} R_4$$

$$R_5 \xrightarrow{R_4} R_4$$

$$R_7 \xrightarrow{R_4} R_4$$

$$R_8 \xrightarrow{R_4} R_8$$

morpholine /
$$S_g$$

Het

 CH_3 ii)

MeOH / H_2SO_4

Het

Het

KOH

Ester condensation
$$R_1 \xrightarrow{R_2} R_1 \xrightarrow{R_2}$$

$$0 \xrightarrow{R_4} Ho \xrightarrow{R_4} Ho$$

$$COOCH_3 \xrightarrow{KOMe/\Delta} Het Het Mark$$

Het

iv)

Het

Fig. 20

v) Intramolecular cyclization

vi) Pyran condensation